

Revenge of the Gamers! World of Warcraft and other online games are honing the skills of tomorrow's business leaders. PAGE 3

PUTERWORLD



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beating back a cyclops. easy.



But there's no shame in running. The Cyclops plans to kill you, tear you to pieces, and eat you. Survival is job number one.



Start chopping onions, and tell him it's for a batch of your award-winning chili. He'll be too bleary-eyed to fight.



3. Give him an eye test.

Tell him he'll need a monocle, which you happen to have in the back room, then simply slip out the back.



4. Use the classics.

A banana peel, strategically placed, is still hard to beat. Lure the Cyclops to his slippery doom, then run.



5. The flashlight gambit.

A bright light shined into his retina may blind him long enough to afford your escape. It might also just make him angrier, so be careful.

Show a little tenderness.

Maybe the Cyclops is sensitive about his frankly odd looks. Maybe that's why he's so angry. Try a hug.

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Forefront is business security software for client, server, and the network edge.

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SAS and Lilly

"With SAS' software, we can focus on regulatory compliance today – while moving healthcare forward for tomorrow."

Michael C. Heim

Vice President, Information Technology, and Chief Information Officer Ell Lility and Company



Changing the World

T AN IT conference in St. Louis a couple of weeks ago, an IBM executive gave a presentation in which she made an intriguing observation about people in their late teens and early twenties.

"They want to change the world," she said, "They're not as much interested in Tm going to make a whole lot of money.' Most of them want to make a difference. And we as IT professionals can show them how IT can help them change the world."

Hold that thought. Four days earlier, a college softball game was under way in Ellenshurg Wash., where the Central Washington University Wildcats were hosting the Western Oregon University Wolves. Western Oregon senior Sara Tucholsky brought her teammates to their feet when, in the top of the second inning, she hit the first home run of her high school and college careers

When Tucholsky rounded first hase, she realized she'd missed the hag, so she turned back to touch it. In the process, she injured her right knee so severely that she collapsed to the ground and was practically unable to move. Since Tucholsky would be called out if any of her teammates touched her, the Western Oregon coach appeared to have no option

but to send in a pinch runner, which would nullify the homer and cause the hit to be scored as a single. That's when Central

Washington first haseman Mallory Holtman spoke up. She asked if she and her teammates could help Tucholsky around the hases. The umpires said there was no rule in the books to prohibit it. so Holtman and Central Washington shortston Liz Wallace picked Tucholsky up and carried her around the hases, enabling her to touch each bag and home plate with her good leg. It was a three-run homer, and Western Oregon went on to win the game, 4-2. And it wasn't just any

game. It was an NCAA Division II playoff game. and Central Washington desperately needed a win after falling two games hehind Western Oregon. But that's not what mattered most to Holtman

■ Young people aren't waiting for us to show them: they're already changing the world.

and her teammates. What mattered most to them was that their opponent got the home run she deserved. That's the story that

popped into my mind when the IBM executive - Carberine Lasser, vice tions and emerging husiness at IBM Research -

president of industry soluspoke of how established professionals can show our young people how to change the world.

I had to smile. The fact is, our young people aren't waiting for us to show them. They have different priorities, different expectations and different values that are already changing the world. It's more helpful to recognize that the generation holding most corporate leadership positions today has a lot to learn from the fresh concepts that are being introduced by the generation that's now entering the workforce. The reason is simple: Those are the concents that will serve as the truest agents of change. But Lasser did provide some valuable insights.

especially when she spoke of the work IBM is doing to study how popular



multiplayer online games like World of Warcraft can help advance the goals of corporate IT.

"What's interesting," Lasser said of the gaming phenomenon, "is that leaders emerge.

I was reminded of that observation when I read Kathleen Melymuka's interview with Harvard Business Review author Byron Reeves in this week's print issue (page 30), Reeves, co-founder of a company called Seriosity that develops enterprise software inspired by games like World of Warcraft, spoke about a Seriosity study that was commissioned by IBM. Entirely coincidentally, the findings helped explain Lasser's point

"The most interesting [conclusion] is that leadership in these games has less to do with the special qualities of the person doing the leading than with the environment itself." Reeves said, "A lot of people can be leaders when there's an environment that's conducive to making it happen."

Perhaps we should just concentrate on providing the right environment and let young leaders like Holtman take it from there. Don Tennant is editorial director of Computerworld and InfoWorld. Contact him at don tennant@ computerworld.com, and visit his blog at http:// hlogs.computerworld. com/tennant.

■ ONLINE CHATTER

RESPONSES TO: Agile Reality April 28, 2008

Is agile programming an approach or a sales pitch? How many consultants are banging on corporate doors offering to teach this latest incarnation of what Cliff Stoll so aptly labeled "Silicon Snake Oil?"

It's a cycle that has been very successful for the consulting industry. Every time the previous iteration of 'how to get programming done without actually biring a programmer fails, along comes a "new" method. language, automation tood, etc., that will solve all your problement of the consultation of the contraction of the consultation of the contraction of the consultation of the contraction of the contraction

Some naive assumptions are being made here. The most important is that the customer knows what he needs. All developers know better, and that's why we have elaborate spec writing, contract negotiating, and the rest of the expensive and time-consuming precoding ritual. While you could avoid a lot of up-

front delay by adopting a "work it out as you go" relationship between developer and customer, you would relinquish all control over territorial battles, rear-end covering, blame-placing and all of the communication problems within the customer's organization. Non-agile programming has had considerable success at isolating these kinds of mobilems before coding.

■ Submitted by: rich97

Just because a customer runs a business deest'i mean he has a business process. A good precentage of business servive because employers the process and the process and the process and the process and the process are the forms towards a are that forms towards are that forms to many terms are that forms to computerized once where the employees car't scribble notes, and the computerized system will be rejected as a failure. But where was the actual failure? Both in the lack of functional process and the inability to articulate is defined in ability to articulate is defined.

■ Submitted by: Steve Simmons

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suphan-Nichols takes stock of the
alware/anti-malware landscape
is spotlights how the two sides are

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on everything from enabling wireless security to building a PHP
calculator.

Leopard at Six Months: Does It Live Up to the Early Hype? In the six months since Mac OS VII Si Leopard was released. Apple has updated it twice, released manerous code breaks and buy faces, and turned an artudy left-featured operating system into a mature platform, says Michael Dokaporis.

COMPUTERWORLD.C

THE WEEK AHEAD

#ONDAY: Digg officials hold the second in an on-peries of online "town hall" meetings set up to dis es with users of the news aggregation Web site. crosoft plans to release four software up-f them rated "critical," as part of its monthly

day batch of security fixes

THURSDAY: The U.S. Census Bureau is schedults report on first-quarter e-commerce sales.

Clearwire will supply its WiMax expertise and spectrum, which the companies value at \$3.9 billion. The deal is expected to close in the fourth quarter.

Industry analysts said the number of major comnanies involved is a danger sign. Such joint efforts in the telecommunications industry are notoriously difficult to manage and often collapse under the weight of the enormous stakes and the egos of the players involved "Toint ventures often

have too many cooks in the kitchen " said lack Gold, an analyst at LGold Associates LLC. "This one will only work if the Clearwire folks are given autonomy to make the decisions they need to make without undue secand-guessing and meddling

from the partners." The new company will be headed by current Clear wire CEO Dan Wolff. The company's founder, wireless pioneer Craig McCaw, will he chairman

Sprint and Clearwire executives offered few details about the cost or speed of the planned WiMax service, but Wolff said that his company's new network in Portland, Ore., has achieved more than 6Mbit/sec. downlink speeds and more than

2Mbit/sec. uplink speeds. - Mctt Hamblen



AMD's New Multicore Plan Still Trails Intel's

last week announced that it ans to release a six-core chip next year and a 12-core chia in 2010.

The updated road map pu the struggling chip maker about a year behind rival Intel Corp. In the race to ship a six-core chip.

[AMD] needs to ick up the pace. It boils down to being 365 days late and many. many dollars short in terms of margin.

The AMD six-core pr will ship in the s of 2009, said Randy A on. Intel plans to release its first six-core chip this year "[AMD] needs to pick up

et at Cabriel Consu up inc. "It boils down to being 365 days late and



Many Hands May Threaten Sprint-Clearwire Venture

PRINT NEXTEL Corp., Clearwire Corp. and five other firms last week announced plans to create a \$14.5 billion joint venture that would develor a national WiMax network. Sprint had been desper-

ately seeking investors to help fund a multibilliondollar buildout of its WiMax networks. The company had started building trial WiMax systems in Chicago and Washington earlier this year.

"This has been a complex puzzle to solve," said Sprint CEO Dan Hesse in a conference call announcing the deal. He said Sprint and Clearwire are a "natural fit"

and have the ability to create a national footprint of fast WiMax connections. He added that the part-

nership could help WiMax technology reach 120 million to 140 million people by the end of 2010.

The joint venture, called Clearwire, includes a combined \$3.2 billion in funding from minority stakeholders Intel, Comcast, Time Warner Cable, Google and Bright House Networks.

Sprint will own 51% of the venture and contribute its 2.5-GHz high-speed wireless WiMax network, known as Xohm. Sprint values its contribution at \$7.4 billion



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SOFTWARE

Sun Changes Course on Plan for MySQL Add-ons

DEFICIALS AT Sun
Microsystems Inc.
did last week that
the company is dropping a
controversial plan to release
some upcoming data-backup
features — and potentially
their source code — only
to paying users of its opensource MySQL database.
But Sun, which bought
MySQL AB february for
SI billion, isn't closing the
door on the idea of limit-

SI billion, isn't closing the door on the idea of limiting other database features to paying customers in the future, according to a blog post by KaJ Arnö, vice president of community relations for the MySQL software.

"To financially support

"To financially support MySQL's free and opensource platform, we have a business model which allows both community and commercial add-ons, and we remain committed to it." Arno wrote. "We believe the model to be useful for both those who spend money to save time, and those who spend time to save money." Under Sun's original plan.

only users with MySQL



Enterprise contracts would have had access to data encryption and compression add-ons being developed for MySQI, 6.0 But when that scheme was disclosed last month; it incited an online revolt among users of the free MySQI. Community edition, who greatly our-number their paying coun-

Marten Mickos, MySQL's former CEO and now senior vice president of Sun's database group, announced the change of heart on the add-ons during a panel discussion last Monday at the CommunityOne conference, which was held in San Francisco in conjunction with Sun's JavaOne show.

The decision to back off from the original plan wasn't totally unexpected. In various online posts after the broubaha erupted, Mickos said that Sun had yet o decide whether it would release the source code for the backup add-ons under a commercial or open-source license.

The core online backup capabilities coming in MySQL 6.0 were scheduled to be made available to both groups of users all along.

Arno said in his blog post last week that limiting the backup add-ons to MySQl. Enterprise users was part of MySQl. AB's strategy to boost revenues if it stayed independent and went jublic. But the restrictions "made less sense" after Sun's acquisition, he added.

Nonetheless, Arnö said that Sun will "continue experimenting" with what it offers to all MySQL users and what it makes available on a commercial basis only. "We want MySQL to be the most popular database for both paying and nonpaying users." be wrote.

lease of IE6 with pre-SP3 files.

Maliouta said. Users would

then be left with a "mixed file

state" in Windows that is prone

- Eric Lai

Short Takes

Pittsburgh-based IT consultancy iGate Mastech Inc. has agreed to apply 45.000 in fines to settle complaints that it discriminated against US. citizens when it placed help-wanted ads seeking H-IB visa holders, according to the U.S. Department of Justice.

Facebook Inc. has reached an agreement with 49 states and the District of Columbia to implement new safety measures and refine existing ones that protect children against sexual

Chip makers Intel Corp., Samsung Electronics Co. and Taiwan Semiconductor Manufacturing Co. agreed to collaborate in efforts to ease a move from 300mm waters to 450mm waters by 2014. The technology will make it possible to significantly increase they production.

Borland Software Corp. has agreed to sell its Code Gear development tools unit to Embarcadero Tech nologies Inc. for \$30 million. The deal is expected to close by June 30.

OPERATING SYSTEMS

XP SP3 Users Face Limits On Removing IE7 From PCs

MICROSOFT CORP. last week warned users who update their PCs to Windows XP Service Pack 3 that they may not be able to downgrade from Internet Explorer 7 to IES without first uninstalling SP-3. Jane Maliouta, an IE program manager, said in a blog post

installed on a system already running IE7, the option for removing the browser in the Windows control panel will be automatically grayed out. SP3 includes new versions of IE9's files, but removing an existing IE7 Insta

to bugs and isn't supported by Microsoft, she added. For the same reason, users won't be able to uninstall the first beta release of the upcoming IEB if it's already in place before their PCs are upgraded to XY SY3.

Users who want to retain the ability to remove either IE7 or IE8 Beta 1 should uninstall them before upgrading to SP3, then reinstall the browsers. The mixed-file problem doesn't occur when that is done, Maliouta said.

when that is done, Malloruta said.
Microsoft released IET in 2006. It was the first major update to internet Explorer since IEE, which was released in 2001, and it remains Microsoft's most popular browser among businesses. According to Forester Research Inc., only 30% of corporate users had switched to IET by the end of last year.

— 0.8FSO M.EZEF.



SOFTWARE

Sun Changes Course on Plan for MySQL Add-ons

FFICIALS AT Sun Microsystems Inc. said last week that the company is dropping a controversial plan to release some upcoming data-backup features - and potentially their source code - only to naving users of its opensource MySOL database. But Sun, which bought MySQL AB in February for \$1 billion, isn't closing the door on the idea of limiting other database features to paying customers in the future, according to a bicg

for the MySQL software. "To financially support MySQL's free and opensource platform, we have a business model which allows both community and commercial add-ons, and we remain committed to it. Arnó wrote. "We believe the model to be useful for both those who spend money to save time, and those who spend time to save money."

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System Center

Henning Kagermann **Outgoing SAP head says**



co-CEOs are good fit - outside the U.S.

SAP."

OPLANO SAP AG co-CEO Henning Kagermann, who is entering

his last year on the job, took center stage at the company's Sapphire user conference here last week. In an interview with the IDG News Service, he reflected on his career, his successor and the departure of former executive Shai Agassi.

What kind of advice are you giving your successor, co-CEO Leo Apotheker? I don't give him advice. We're pretty much aligned. The transition - that's why we had a year as co-CEOs. I can hand over responsibilities slowly, and he can get used to it.

Can the co-CEO concept work in the U.S. tech sector, with strong personalities like Larry Ellison and Steve Ballmer? I don't think so. Whenever you speak to CEOs [in] the U.S., they are surprised at what we are doing. For SAP, it's not exceptional. I was co-CEO with [SAP cofounder! Hasso Plattner for five years. People feel it's a more continuous succession. It's not "A new man is coming."

Speaking of strong person alities, has SAP missed Shai Agassi, who was seen as a tial successor before leaving his post as president of SAP's product and technology group in 2007? I cannot say. We have to respect decisions. If you look at the bench strength of SAP. it's pretty large. I always

say, "There's nobody who

cannot be replaced within What do you see as your major

accomplishments? We started in 2002 in a very tough environment [and have] come back to double-digit growth and market-share gains. We shave recently acquired Business Objects] - the largest acquisition

SAP has ever done. As I leave, SAP is in a good position to grow into new areas and has a good product portfolio for the next five to 10 years.

> -Chris Kanaracus IDG News Service



Three Hewlett-Packard Co. user groups said they have formally merged into a single organization called Connect. The user groups - Encompass, ITUG and HP Interex EMEA - announced the merger plan in February Sun Microsystems Inc. and the OpenSolaris project

officially released the opensource version of Sun's Solaris operating system. 17 YEARS AGO: AT&T Corp. announced that it had agreed to buy NCR Corp. for \$7.4 billion. The merger was undone six years later. when NCR was soun off

Telstra Awarded Global Dispatches

Microsoft Builds \$280M Campus **BEIJING - Microsoft Corp** last week broke ground on a

new research and devel campus here and announced that it plans to double its Chinese research staff of 1,500 er an undisch sed period. The new \$280 million (U.S.)

Microsoft China R&D Campus will include two buildings equipped with environmentally dly features, such as sola water heaters and sensors that turn off the lights when a room is not in use, the company said.

The campus is scheduled to be completed in 2010, Microsoft said. ~1-

IDG News Service

Australian Pact CAMBERRA, AUSTRALIA The Australian Department

of Defence has awarded a sixyear, \$162 million Australian (\$153 million U.S.) contract to Telstra Corp. for telecommuni

Greg Combet, parliamentary secretary for defense procure ment, said the contract calls for Melbourne-based Telstra to provide mobile phones and fixed-line voice, fixed-line data and broadband services to

agency personnel Combet said that outsourcing the services will result in annual savings of more than \$13 million Australian

(\$12.2 million U.S.) The Australian Cust Service in Canberra also an nounced that it has awarded a \$23 million Australian (\$21.6 million U.S.) contract

to Telstra unit Kaz Group Pty. to support and maintain its applications. Sydney-based Kaz replaces Plano, Texasbased Electronic Data System Corp. as the agency's services Sandra Rossi

Computerworld Australia BRIFFLY WOTED

The Hong Kong Judiciary last week said it has awarded a five-year outsourcing contract to Unisys Corp. Under the contract, Unisys will provid ongoing application support and maintenance, network infrastructure, office aut tion and other IT services. Th value of the pact was





Henning Kagermann **Outgoing SAP head says**



co-CEOs are good fit - outside the U.S.

SAP AG co-CEO Henning Kagermann, who is entering his last year on the job, took center stage at the company's Sanphire user conference here last week. In an interview with the IDG News Service, he reflected on his career, his successor and the departure of former executive Shai Agassi.

What kind of advice are you giving your successor, co-CEO Leo Apotheker? I don't give him advice. We're pretty much aligned. The transition - that's why we had a year as co-CEOs. I can hand over responsibilities slowly.

and he can get used to it.

Can the co-CEO concept work in the U.S. tech sector, with strong personalities like Larry Ellison and Steve Ballmer? I don't think so. Whenever you speak to CEOs [in] the U.S., they are surprised at what we are doing. For SAP, it's not exceptional, I was co-CEO with [SAP cofounder] Hasso Plattner for five years. People feel it's a more continuous succession. It's not "A new man is coming."

aking of strong pers ies, has SAP missed Shai ssi, who was seen as a ial successor before ng his post as presi of SAP's product and technology group in 2007? I cannot say. We have to respect decisions. If you look at the bench strength of SAP, it's pretty large. I always

say. "There's nobody who cannot be replaced within SAP.

What do you see as your major accomplishments? We started in 2002 in a very tough environment [and have] come back to double-digit growth and market-share gains. We [have recently

acquired Business Objects] - the largest acquisition SAP has ever done. As I leave, SAP is in a good position to grow into new areas and has a good product portfolio for the next five to I0 years.

-Chris Kanaracus IDG News Service



Three

user groups said they have formally merged into a single organization called Connect. The user groups - Encompass, ITUG and HP Interex EMEA - announced the merger plan in February

the OpenSolaris project

officially released the opensource version of Sun's Solaris operating system.

AT&T Corp. announced that it had agreed to buy NCR Corp for S7.4 billion. The merger was undone six years later. when NCR was soun off

icrosoft Builds \$280M Campus BELJING - Microsoft Corp last week broke ground on a

m here and an at it plans to double its Chi-se research staff of 1,500 The new \$280 ml

turn off the lights when a roo is not in use, the company sa

ed in 2010. Micro

IDG News Service

Telstra Awarded Australian Pact CAMBERRA, AUSTRALIA

The Australian Department of Defence has awarded a si year, \$162 million Australian 153 million U.S.) contract to istra Corp. for t

(\$12.2 million U.S.)

ervice in Camberra a

to Teistra unit Kaz Group Pty. to support and maintain its applications. Sydney-base Kaz replaces Plane, Texasased Electronic Data Syst Corp. as the agency's serv

Computerworld Australia

MEFLY NOTED

week said it has awarded a ys Corp. Under the on and other IT see



NEWS ANALYSIS

Where Does Microsoft Go Now

Microsoft's bid for Yahoo looks like a dead end. But the software vendor has other options. By Eric Lai and Linda Rosencrance



OOR STEVE BALLMER. Having vanked his offer to buy Yahoo Inc., Microsoft Corp's CEO is left to run a \$57 billion company that is on track for its annual orgy of profits and continues to dominate several software spheres. And he still gets to decide how — or even if — the company should spend its \$26 billion cash hoard.

But these aren't breezy times for Microsoft or its top executive. There is a growing sense outside the company that it needs to make major changes if it wants to continue thriving, for example, analysts at Gartner Inc. claimed last month that Windows is "collapsing" under its own weight. And George Colony, CEO at Forrester Research Inc, said in his big last week that a wholesale reformation is required at Microsoft.

In particular, Ballmer needs to move quickly to shape Microsoft's strategy for the Web, where, with a few exceptions, it remains a laggard behind Google Inc. and other online rivals.

That may hurt Microsoft's chances with some users, even when its online offerings are technically equal to Google's. For example, the University of the Pacific in Stockton, Calif, recently decided to roll out the Google Apps suite rather than Microsoft's similarly free Live@edu package.

"On paper, Microsoft's and Google's products looked exactly the same," said Rob Henderson, director of cyberinfrastructure at the school. But a poll of the university's 6,000 students showed that a majority preferred Google's technology, Henderson said.

Dana Gardner, an analyst at Interarbor Solutions LLC in Gilford, N.H., said via e-mail that Microsoft "needs to become No. 1 or No. 2 in online consumer and business "something" before its Office and desktop Windows franchises go into slow-growth and/or maintenance mode."

So, how can Microsoft try to catch up on the Web, now that its bid to buy Yahoo is off the table? There are

three main options: 1. Forget about Yahoo and look elsewhere. Abandoning what had become a \$47.5 billion cash-and-stock offer for Yahoo showed that Microsoft is belatedly coming to its senses, said Enderle Group analyst Rob Enderle.

One upside of the failed merger attempt, he added in an e-mail, is that it opened up possible opportunities for Microsoft with News Corp. and Time Warner Inc. that may "turn out to be both less risky and more lucrative than [buying] Yahoo would have heen."

Under that scenario, News Corp.'s MySpace Inc. social networking unit or Time Warner's AOL LLC subsidiary could become new candidates for acousi-

tion or partnership deals. Fach has some poten tial appeal for Microsoft: MySpace is essentially the Windows of the casual social networking market. while the A in AOL could well stand for advertising at this point. AOL's online ad network delivers 3 billion banner ads daily - tops in the U.S., according to market research firm comScore Inc. And AOL's Web properties collectively rank as the fourth most popular in the U.S., behind those of Yahoo, Google and Microsoft

But there are downsides. Time Warner said as part of its first-quarter earnings report that advertising was down year over year on its own Web sites, leading to management changes and an internal reorganization. And a Microsoft acquisition of MySpace — or of Facebook Inc., in which it has a 1.6% stake that cost it \$240 million last fall — could alienate the pre-

dominantly young socialnetworking user base. If Microsoft is fixated on the Web advertising business, other options might Continued on page 14



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NO DEAL

Yahoo rejects Microsoft's offer, saying the proposed purchase price isn't

Key developments in Microsoft's now-abandoned bid to buy Yahoo

APRIL 9

As part of its hunt for alternatives to the Microsoft offer, Yahoo says it will test Google's ad service with its search engine.



Microsoft drops its offer, CEO Jerry Yang says Yahoo can focus on "the most important transition in our history."

Microsoft offers to acquire Yahoo for \$44.6 billion work of cash and stock To discourage Microsoft from trying to replace its board, Yahoo indefinitely extends an internal deadline for nominating directors.



Ballmer gives Yahoo hree weeks to accep he deal or face a pos sible proxy fight. The deadline set by Ballmer passes without any action on Yahoo's part.



Continued from page 11 include Specific Media Inc. or ValueClick Inc. Those two companies operate the largest independent online ad networks in the U.S.

Or, if Microsoft really wants to get into social networking, it could try to entice LinkedIn Corp. to agree to a buyout. The professional networking site has 20 million members, and a deal with Microsoft would likely trigger less user backlash than one between the software vendor and MySpace would. On the other hand, LinkedIn CEO Dan Nye has said that his company is aiming for an initial public offering next year.

2. Focus internally. Microsoft's biggest online weakness is in the core Websearch area. Its Live Search engine is used for just 9% of searches by Internet users in the U.S., leaving it far behind Google's 60% share, according to comScore.

Since no acquisition apart from buying Yahoo would quickly boost Microsoft's search position, "their best priority for now would be to work on innovating around their own search business," said Forrester analyst Shar VanBoskirk. "Id stay out of the acquisition game for a while and spend my money

on my own R&D."

Although that approach has left Microsoft floundering in search, it has worked in other areas. A case in point: Microsoft was rebuffed by federal regulators

when it tried to buy Intuit Inc., maker of the Quicken personal finance software, in the mid-1990s. But afterward, Microsoft "steadily improved" its own Money application, said Burton

Yahoo Needs Quick Boost; 'Open Strategy' May Help

FYER MICROSOFT withdraw its offer, Yahoo CEO Jurry Yang said that without "the distraction" of the happed tied, his company is new free to focus on a strategic maleover designed to boost its online advertising revenue.

But as Yahan embarks on what Yang described in a statement a "the meet important transition in our history," it will likely have to produce tangible results quickly to convince restine shareholders that resisting liberasels's overheres was the right thing to do.

Yahou's best chance for success may be its ambitions plan to open all of its Web sites and survives to extrain application developers, while plant quest a deshibuerd application for creating profess shallor to the some offered by Facebook, MySpace and other social methods.

The Values Open Strategy plan, which was hunched in Auszelant Captember and publicly detailed fact morth, could give Values the booset it has been seeking for yours among Web yours, axid DC analyst Kursten Weide. "I wouldn't have used the word 'wouldny' with the name Talants for a long time, but these are actually quite markes indicates," Weide adding.

Another possible name for Yahno is outcourcing the advertising on its search results pages to Google, following a bid row that began in April. But a deal of that type could be challenged on antitrest grounds by regulators or visuls such as Microsoft.

Contract analyst Allen Weiser said Yahao bas to do something more than just talk about intenglibles - prosin. "We've sooking and learning what I would a call branch of size-to-learns and spin," In said, "The problem is that people are ready thred of spin, and they want to hour something defection,"

- Linda Resenceance

Group analyst Guy Creese.

Of course, Microsoft may need to rethink more than just its search strategy. Forrester's Colony wrote in his blog that Ballmer 'dodged a bullet' when he withdrew the Yahoo offer. What's really needed at Microsoft, Colony added, isn't a quickfix acquisition instead, the company has to change its meet processes and financial models to become a true online software vendor.

3. Swoop back in and grab Yahoo after all. Microsoft's public walkaway from the proposed deal may end up being a high-risk but successful negotiating tactic.

The fact that Yahoo's stock price was down by less than 10% as of Friday — and that it remained well above the price levels from before Microsoft launched its bid on Feb. 1 — has been attributed partly to investors remaining hopeful about a deal with Microsoft.

Perhaps backtracking a bit, Yahoo CEO Jerry Yang told multiple media outlets that a sale of the company remained a possibility if the price was right. But Creese noted that if Yahoo doesn't meet its financial targets, "Microsoft may be back with a lower offer price."

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A BREAKTHROUGH IN THE EVOLUTION OF THE DATA CENTER

BROCADE

Multiple Short Outages Can Add Up to Major Problems

Preparing for major catastrophes is just one piece of IT disaster planning these days. By Johanna Ambrosio

NEW YORK

ORPORATE executives have long created IT plans to cope with major disasters. but now they're increasingly taking steps to prevent the brief shutdowns that can cost companies hundreds of thousands of dollars or more in their own right. Users and analysts at IDC's Enterprise Data Cen-

ter Forum here last week listed several options for quickly recovering from or preventing relatively minor incidents - like user miscues or electricity brownouts - that can shut down systems for an hour to a half-day or so.

Doug Roberts, manager of system services at Hannaford Bros. Co., became aware of the threat posed by seemingly minor incidents about 10 years ago, when his company had a single data center with a diesel generator for backup.

At the time, the Scarborough. Maine-based supermarket chain was focused on preparing for major disasters, "We'd do the big four-and-a-half-day disaster recovery event, planning for a hurricane or whatever." Roberts said. "We'd go to the IBM facility, practice the drill."

Then an incident completely out of Hannaford's control temporarily shut down the data center and the backup generator. At a truck yard across the street, Roberts said, an 18-wheeler "did a U-turn and [accidently] dumped the contents of its fuel tank." The city shut down all power to the area and wouldn't allow Hannaford to use its generator because of the risk of fire.

sort. The survey did not ask about the length of outages or when they occurred

Matthew Eastwood, an IDC analyst, said human error is the most common cause of data center outages. Causes range from mistakenly hitting the emergency power-off button to tripping over a power cord.

The second most common causes of outages are incidents outside of the data center's control, such as what happened at Hannaford

Eastwood said that data centers can also face problems when cooling and power equipment, which are often overseen by the facilities group, are not in sync

cording to Dave Howard, national manager of service management at Toyota Motor Corp.'s financing arm. The problems included downed networks, enterprisewide application problems, and server or facility outages, he said.

Since the company adopted the Information Technology Infrastructure Library, or ITIL - best practices for managing systems and networks - outages have been cut back to one every three or four months, according to Howard.

"Because we have better incident and change management, when something goes down today, we know what happened," Howard said. "And 70% to 80% of the time, it's our service providers and not us."

Left unchecked, outages could have increasingly dire consequences for businesses, analysts noted

Consider the fact that, as part of the movement toward data center consolidation and server virtualization, companies are centralizing increasing amounts of equipment in single data centers, "If 60% of your assets are centralized in one data center [and] the data center is down, the business is down, too," said IDC analyst Michelle Bailey.

She said data center managers should use that kind of reasoning to convince wary executives of the potential ROI of new systems that could prevent potential disasters.

Because we have better incident and change management [from using ITIL], when something goes down today, we know what happened. And 70% to 80% of the time, it's our service providers and not us. DAVE HOWARD, NATIONAL MANAGER OF SERVICE MANAGEMENT

After that incident, Hannaford installed near-realtime backup systems for its mainframes and key Unix and Windows servers at another data center about seven miles away, as well as at a smaller facility in upstate New York, "It's kind of a poor man's cluster," Roberts said.

In an August 2007 IDC survey of 350 data center professionals, about 37% of the respondents said that their data centers had experienced an outage of some

with IT requirements "Both groups should re port into the same organization," or at least they should better coordinate their plans, Eastwood said.

Toyota Financial Services Corp. in Torrance, Calif., found another route to cutting down on short-term data center outages.

Not too long ago, the company had what it considered major incidents - outages of at least an hour - three or four times a week, ac-

On the Mark

HOT TRENDS IN NEW PRODUCT NEWS INDUSTRY BUZZ BY MARK HALL



Herd Those IP Addresses

P ADDRESSES get handed out in oodles of ways, and they're discontinued all the time. So you'd think there would be no reasonable method for tracking them all.

Not so, claims Branko Miskov. The director of product management at BlueCat Networks Inc. in Toronto says the company's Proteus 2.5 appliance targets exactly that problem. The software

update, due to ship in June and starting at \$40,000, uses BlueCat's network IP address discovery feature to compare existing addresses to those stored in Proteus. Admins can reclaim addresses that are no longeactive for other devices. And, Misikov says, when previously unknown IP addresses are found, the software can



determine the rogue unit's MAC address and the physical port it's using. Among other enhancements, the new release gets workflow processes to ensure adherence to policies for distributing IP addresses. Sounds like stray IP addresses could become a thing of the past.

Virtually Cross-Platform

Microsoft Corp. will add a Performance and Resource Optimization (PRO) module to Virtual Machine Manager 2008, now in beta. VMM, available in Q3, can manage virtual machines based on Microsoft's Hyper-V virtualization hypervisor.

VMM, which is part of Microsoft's System Center management suite, will also be able to handle VMware, based virtual machines, says Dai Vu. Microsoft's director of virtualization products and solutions. VMM uses other System Center tools to keep track of virtual machines under its wing. For example, System Center transactions on SQL Server database, passing along the information to PRO. That module will compare the data to policies and determine whether it's within acceptable limits. If not, PRO will inform VMM to take action, such as moving the SQL Server virtual machine to another physical server with



better performance. Because VMM is cross-platform, it could also execute the same policy for an Oracle database running under VMware, says Vu. System Center with VMM will start at \$765 per server.

Beyond FTP

If you want to get a file to someone in a hurry, you attach it to an e-mail message. If it's too big for e-mail, you probably use FTP, available in virtually every operating system. But if you want to manage your file transfers, you need to look elsewhere.

One source to consider is Proginet Corp; in Carden City, NY, It's been in the file-transfer business since 1986, and its flagship software. Cyber Fusion Litegration, got a slick new feature in Version 6.3. According to Arne Opinsons, sensior vice president of product management, the CFI attachment manager works as a plug-in to Outlook mail clients and lets senders see who has received and opened a



file. You can recall the attachment before amone opens it or if you change your mind or update the content. If recipients aren't Outlook users, they get a link to the attachment, which can also be rescinded. CFI lets

you set policies about file-transfer rights as well. Johnson says regulatory pressure is helping "an old technology become new," because companies don't want to get into trouble over end users sending any files they want anywhere they want

via insecure methods.

Proginet will release a
version of CFI læer this
year for Notes and BlackBerry users. Pricing starts
at around \$5,000. ■

O MORE BUZZ
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THE GRILL

Paul Major

Aspen Skiing Co.'s CIO talks about mapping business processes to renew the spirit, making pizza in a pinch and schussing on the job.

Dossier

Name: Paul Major Title: Managing director of IT

Organization: Aspen Skiing Co. Location: Aspen, Colo.

Most interesting thing people don't know about him: He cooked professionally for four years in a number of high-end restaurants and hotels.

avorite technology: "Contact enses are high on the list."

In high school, he was: "A ban geek and president of the ski club."

T philosophy in a nutshell:
"You never know how something really works until it breaks."

Ask him to do anything but:
"Reformat your hard drive and

Last book read: A Short History of Hearly Everything, by Bill Bryson

Favorite movie: The original, 1969 version of The Italian Job (with Michael Caine and Benny Hill), or 2001: A Space Odyssey

Now do you spiply IT to manage your company's operations? It think, as with most companies, IT is central to every-hing that we've doing. Customer service is critical. Our product is not the kind that you can sell over the Internet. It's not a product that you ship to someone. They have to come and experience il. So it's critical to someone in the part of the critical transfer. It is not a product that you ship to someone. They have to come and experience il. So it's critical to a company is "We renew the human spirit." And that's a really interesting phrase to take into the IT areas.

So we're looking at our technologies from the standpoint of, "How does this renew the human spirit for our guests? How does this make the skiing experience as convenient as possible?"

This is a real hassle-factor type of sport. You've got people relying on transportation, there are weather issues, you've got to get them there, there are hotels involved. Once they're

Continued on page 20



I WORK NOW MY NOW MY OPERATING SYSTEMS CAN TOO.





It's the ability to have Microsoft' Windows Server and SUSE Linux Enterprise Server from Novell' work together. And the above to the server is the server is

19 In the working together to include cost in the cost of indirectory integration systems may be relicted property rights. So you call the ency in

Download the collaboration roadmap at www.moreinterop.com

Novell Microsoft



There's kind of a powder-day hall-pass rule that our CEO has that we get out and ski.

Continued from page 18 there, we want their experience to be as fantastic as possible.

Think of snow as a product: We make snow, we groom snow, and we put thousands of people out on the snow to serve our guests — ski instructors, rental retail shops, a number of hotels. So all the technologies that we are using are designed to create a great customer experience.

Tell me about a recent project that supports that mission. We've been using a legacy application developed in-house. It's a very effective application from the standpoint of customer service.

But it's extremely difficult to sustain it. So we had to go out and actually buy a new system to do what we do.

But rather than thinking about this as pulling off one product and putting another product into play, it's actually been a four-year project - and we haven't even deployed the software vet. Those years have been spent doing business process analysis to figure out what we do as a company - why do we sell lift tickets the way we do? Why does the ski school operate the way it does? Once we were able to sit down with all these departments and literally write a business process plan for every one of these departments asking all the questions about why, then we can take this off-the-shelf product, we can build customization into it, and what we're going to come up with is an off-the-shelf, supportable product

We'd love it if you could go to the chairlift and when we scan your pass, if you've got a five-day pass and you want to go use a sixth day, you never go back to the ticket office. When we scan your pass, we're going to hit your credit card for that incremental cost without you ever having to think about

that's going to meet all of our needs.

making a purchase decision. It wasn't possible to architect that with our existing system. But the net technologies were working with me technologies, a lot of Web. The technologies, a lot of Web, making this very mobile — we feel we can offer a real superior product and again give our guests the opportunity to generate revenue for us, but do generate revenue for us, but do in a way that's so convenient for them that it enhances the experience.

board? Not enough. I'm real adamant that my staff goes out and skis. We have 23 food and beverage outlets. A lot of those are on the mountain. We go out and product-test on occasion. There's kind of a powder-day hall-pass rule that our CEO has that we get out and ski. That's our product. And we expect our team to be out and enjoying it so they can see what our guests are

How often do you get to ski or snow-

enjoying, and they can also look at the way the flow is and understand how our technology might be changed to enhance that. It sounds like it has helped shape your own role within the company to help identify opportunities for blending IT with the business. I think, in some respects, our IT team probably knows the business even better than some of the folks in the lines of business.

the lines of business. (Dury people when the retail shops, Tills year, ever had a thort-shops, Tills year, ever had a thort-shops, Tills year, ever had a thort-shops, Tills year, ever had a lot of our team to good learn how to teach lessons. Some of them are IProfessional Ski Instructors of Americal certified instructors. They've actually taken time out from their IT plo to teach a private lesson. Not only does it benefit the lines of boniteess, there's a nice play between our team being part of the control of their design of their desi

It gives you a totally different perspective. It's fun, and you get to realize what we do as a company. Instead of thinking so much about technology, you begin to realize that everything we're doing has to come down to the customer experience and that renewal of the human soirit.

I leaging that you probably don't have a lot of trubin scratting qualified IF pools to work for your company. There are a lot of people who was to come to work for us. The issue is, this a difficult place to move to. Housing is extremely expensive. I have had people just simply not be able to consummate the deal — very qualified people. But generally, people with families and children are just not going to find a place to live in our valley. The bousing costs are just

exponentially higher than other places.

Salary-wise, we're a very competitive company. But often, it's just not enough to make up that type of difference. So othar's been a tremendous obstack. As a company, we are investing tens of millions of dollars building employee bousing in our local community just for that reason. But with some of the other features, like remote work-

force and some of the telecommuting

possibilities, we've been able to make

up for some of those issues.

— Interview by Thomas Hoffman





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SONICWALL

Methel I Hugos

Say Goodbye to Business Analysts

S THERE a place for business analysts in IT today? Not if their primary function is just to analyze business needs. As the pace of change accelerates, business people want more than analysis; they want workable

solutions to their problems.

Analysis is only part of the job that needs to be done. It can clarify situations and trends, identify problems and make recommendations. But most analysis serves only to educate the business analyst. Business people who live with the situations being analyzed already know 98% of what the analysis will tell them.

There are two other important parts of the job: creativity and synthesis. Analysis is where we determine business needs, specify performance requirements and find out what recourses we have to work with. Creativity is where we come up with ideas for combining available resources to create systems that could meet performance requirements. Synthesis is where the best ideas are evaluated and modified until good solutions are found

A single person who does all three of those things isn't really a business analyst. He or she is a systems designer are that And designers are was businesses need today. Increasingly, companies are encountering situations never seen before. Under current conditions, the value of analysis decreases rapidly unless it is combined with creativity and synthesis. If we overemphasize

If we overempassize analysis, we end up relying too heavily on so-called best practices as we try to fit all the situations we encounter into categories that have well-defined answers. This can work for known problems, but not for problems that are new and different. No amount of analysis will ever produce a new idea all by itself.

Systems designers, who combine analysis with creativity and synthesis,

■ Analysis needs to be combined with creativity and synthesis. need to understand that just four techniques that have been evolving in the IT profession for several decades are key to the design of information systems. These techniques are group facilitation, process mapping, data modeling and user interface prototyping. They transcend any particular technology or any particular industry, so they are a stable foundation to use for giving structure to the work involved in all three parts of the system design Group facilitation is es-

sential for getting input from everyone who might have relevant information and insights on a business process. As they gather this input, designers use process input, designers use process mapping to create diagrams that capture task sequences for existing and new workflows. And they use data modeling to diagram the structure of the data those workflows operate on.

Then designers use



prototypes of user interface screens to illustrate how people can interact with the system to do their

Since both business and technical people are able to quickly scan and understand these diagrams and screen layouts, those approaches are effective ways to communicate with the diverse groups of people involved in the development of any new system.

The four techniques work equally well to capture and manipulate the information and ideas generated during all three parts of the design process (analysis, creativity and synthesis). So teaching people to use them in appropriate combinations brings order and manageability to the work involved in designing new systems - and the systems that are designed using this method are the ones business people really want.

In today's economy, the most successful companies don't just follow best practices; they set them. For that, you need designers, not analysts.

Michael H. Hugge is a principal at the Center for Systems Innovation and a speaker. A member of the 2006 Computerworld Premier 100 IT Leader class, his newest book is The Greatest Innovation Since the Assembly Line (Megham-Kijfer Press, 2007). He can be reached at www.MichaelHugos.com.

Speed up Your Systems in Real Time

The 8 Essential Benefits of Automatic Defragmentation

ragmentation is unavoid- able It wreaks havoc on hard disks, causing crashes, hangs and complete system

failures Diskeeper 2008 eliminates fragmentation-automatically It's the real-time solution to your performance and relaability problems Diskeeper is absolutely indispensable. It speeds up hoot times, makes applications launch faster and improves the efficiency of backups and anti-virus scans Diskeeper's benefits have proven time and time again to be a vital part of system

administration We asked 254 of our customers what were the essential benefits of using Diskeeper. This is what they had to say

1. PUSHES SYSTEM PERFORMANCE TO ITS PEAK

We had one machine thathad a failing drive in a RAID 5 array and when we replaced

that drive, performance improved by 300%. And then when I ran Diskeeper for a week, again it improved over 300%. A disk intensive process that was taking 1.5 hours is now taking 15 minutes

2. RELIABILITY RESTORED

We use Microsoft® SQL Server® We were receiving hundreds of messages per day in the log like this one: SQL Server has encountered 21 occurrence(s) of I/O requests taking longer than 15 seconds to complete on file [E \mssql\data\ ...]

We researched this error and found that it is usually caused by badly fragmented hard drives. While our drives are part of a large SAN solution, we were not totally convinced that this should be causing the problem. We downloaded a trial version of Diskeeper and after running it, all of these errors disappeared! We have purchased 5 copies of Diskeeper and we are installing them on all of our production databases with the expectation to never see this error again!

3. TRANSPARENT DEFRAG RUNS UNNOTICED

"The server automotically defragments only when there are idle resources No more worrying about when I can schedule defragmentation, no more worrying about if the defragmentation will cause performance issues. InvisiTasking has worked great for us

on everything from file and print servers to SQL servers." 4. DEFENDS CRITICAL SYSTEM FILES FROM FRAGMENTATION

"I have been using Diskeeper at my office on the 63 workstations and 4 servers over the last year. The addition of Frag Shield 2.0 eliminates the task of manually changing the MFT. In the past

As chosen by 254 Diskeeper Customers sparent Defrag Runs Unnoticed

s Money and Time

nds Critical System Files from

Thanks to all our customers who participated

basically paid for itself within a month by reducing off-hour salaries. Also the defragmented drives perform better and last longer It's a no-brainer for production machines 6. SPEED UP VIRUS SCANS AND

most of my MFTs needed adjust-

ment. Now that this function is

automatic. I don't have to manu-

"Prior to installing Diskeeper, we

were manually defragmenting

Some of the drives would take hours to defrag and within a few

days we would need to defrage

again. Installing Diskeeper

5. SAVES MONEY AND TIME

ally check it

BOOT UPS *Diskeeper saves time in doing virus scans, backing up. indexing and searching the files There are also faster download times for users because of the lower load on the defraement

7. EXTREME CONDITION DEFRAGMENTATION

"One day our SQL Server came to a halt. I did everything ran spyware software, deleted numerous .TMP files, ran Windows⁶ update, etc. But nothing got the server to run. Then I installed and ran Diskeeper; I found that the hard drive was horribly fragmented But after Diskeeper finished delragging the system. the server came up

ed RAID.

8 FLIMINATE COSTLY HARDWARE UPGRADES

We were looking at having to replace or upgrade some of the servers because they were so slow. Since the Diskeeper install, they are performing well enough that we are no longer looking at the upgrades and replacements.

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Even in a town where almost nothing is smaller than huge, the joint \$8 billion-plus CityCenter venture between MGM Mirage and Dubai World has to be considered grandiose.

being developed at the heart of the Strip between the Bellagio and Monte Carlo hotels includes a soaring 61story, 4,000-room hotel-casino and a 500,000-square-foot retail district Residential units planned at the exclusive Harmon Hotel, Spa & Residences in the complex are setting new priceper-square-foot records for condos sold on the Strip. The sprawling effort

employs 7,000 construction workers. So when CityCenter project leaders had to select a project management system to help monitor what is believed to be the largest private development in U.S. history, they naturally settled on a proven software package that they were sure could support such a massive undertaking, right?

The nine-building, 76-acre complex : sign Group, Perini Building Co. (the lead contractor) and Gensler (the lead architect) - still needed construction management software to handle critical change-management and cost-reporting activities. And they wanted a system that was flexible enough to meet the different work styles of the four primary constituents

"We recognized we were bringing in four different cultures and four different approaches to this kind of project," says Bodner, who is manager of audit

and controls for the CityCenter effort. By August 2005, Bodner and other project leaders were reviewing propos als from four software vendors, including Skire Inc., a little-known company in Menlo Park, Calif., that was pitching a hosted Web-based system



MGM MIRAGE'S S8 BILLION CITYCENTER ROLLED THE DICE ON A LITTLE-KNOWN

Think again

Prior to clearing the former Bellagio employee parking lot in 2005 to open up 66 acres for the site (10 adjacent acres from MGM's Monte Carlo site were later added), CityCenter managers had selected project accounting and document management systems to support the effort, says Mark Bodner, a vice president at Tishman Construction Corp., the lead construction manager for the project.

But the four principal players in the project - Tishman, MGM Mirage De-

Bodner was impressed with the functionality of Skire's Unifier capital project and program management system. "With Skire's product, there wasn't any preconceived notion about how to do change management and cost reporting," says Bodner, who has 34 years of project management experience. Skire users "can dictate how [they] want this information recorded and reported," he adds

Other systems the project group evaluated have "great canned reports but can't be used to create custom

reports or forms from scratch, says In Tampas, who started out as a Skirc consultant and later became a systems administrator in MGM Mirage's IT organization. In contrast, changes to workflows or forms can be done easily in the Skire Unifier system, she says. Also, says Bodner, none of the other systems could configure workflow processes to meet the project's require-

ments for reports and data queries. Bodner says he had one initial concern with Skire, "What I was really looking for was a system that was



ONLINE PROJECT MANAGEMENT SYSTEM. SO FAR, IT LOOKS LIKE A WINNER.

focused on construction management. They were new to the marketplace, and they were actually at a disadvantage because of that," he says.

But Skire's impressive client and project list helped allay that concern. Moreover, Bodner was sold on Unifier's functionality and flexibility. He didn't care whether the system was hosted or based in-house, "Whether or not Skire was an [application service provider] was not a primary driver," he recalls.

stakeholders. Some had concerns about : using a hosted project management system from an unknown vendor that would be storing sensitive financial information off-site "We were initially reluctant" to

consider the Skire system "because the core information would be stored on servers outside our company," says Bill Smith, president of MGM Mirage Design Group.

Such reluctance is not unusual. Many executives object to using hosted But it did matter to other CityCenter : project management software, primar-

ily because of connectivity and data security concerns, "Most of my clients like having the software on the premises," says Robert Charette, director of the enterprise risk management service at Cutter Consortium and president of advisory firm Itabhi Corp.

Bodner's push to sell his partners on Skire began with MGM Mirage's IT organization, which he invited to grill Skire executives regarding the company's financial background and security provisions. After Skire com-

pleted a 20-page questionnaire, a team

■ COVER STORY

or MGM Mirage security experts tried unsuccessfully to hack into the hosted system. That exercise, along with supportive references from Salire customers who were using the changes-control and cost-reporting functions, helped clinich the deal between the City-Center project team and Skäre in Ortober 2008. (Bodner and MGM Mirage of ficials declined to quantify the value of the agreement.)

MGM Mirage's IT organization also used an existing firewall and other security systems to help protect the Skire system. Tampus says.

So far, everyone is satisfied, "To date, we have not encountered any problems with off-site storage and have received backups of our data on a regular hasis," says Smith.

FROM THE GROUND UP

Getting executives of the four companies to sign off on Skire was just the first hurdle for Bodner and his team. He and other project team members next had to gain huy-in from 30 top executives at the four companies on the configuration of the project flowcharts.

Once the executives agreed to the plans. Tampas created the flowcharts. From March through lune 2006. Tampas entered flowcharts stem with the plans are stem with descriptions for each cost-reporting process being supported, including requests for information and submittals for material costs, she says. The Unifier system is the same process the says.

The Unifier system is easy to use "because the user interface is consistent across whatever custom [business processes] are developed for a particular company," says Tampas. With an hour or two of training, users are prepared to enter project data, she adds. The 350 mercs of the Skir software.

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The system's flexibility impressed users. Administrators such as Tampas can design workflows and data entry forms from scratch, says Bodner. And project leaders can grant team memhers access to functionality based on their roles and can "swap people in and out of those roles easily," he says.

The Unifier system went into pro-

More than \$8 billion 76 acres on the Las Vegas Strip 7000

Nne

HIGHLIGHTS:

1500 condo hotel units.

.....

The Mandarin Oriental A 47-story

400-room hotel with 227 residences.

Vdara: A 57-story tower including about

Veer Towers Two 37-story glass towers leaning in opposite directions. Each will include approximately 337 loft-like residences.

Retail space Ahalf-million square feet.

GREEN INITIATIVES:

MGM Mrage is pursuing the U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED) certification for CityCenter by incorporating a variety of environmentally sensitive components, including the use of reclaimed water and on-site power generation.

duction in July 2006. In the following weeks, Bodner's team received more than 100 phone calls from users with requests to make minor modifications to the system, "since they knew by then how flexible the system was," he \$335.

We recommended to them that we hold off om making any changes until we'd gotten some results from using the system and hegan producing reports. Bedner adds. Ultimately, some modifications were made, including incorporating additional departments and people into the system, adding fields to the system's forms, and adjusting the workflow as processes were

changed or simplified, says Bodner.
Although the members of the CityCenter project group didn't encounter
any major technical glitches with the
system after they began using it, some
functionality issues had to be addressed, says Bodner. For instance, entering construction cost estimates into
the system was time-consuming because users had to enter line items one
at a time. If a contractor had to enter
of line items, for example, the process

could take more than an hour. The Unifier product team got moving on the problem, and by October, it had created an enhancement to the system that enabled contractors to enter multiple line items at once.

USE IT OR LOSE

One strength of the system was the audit trail if provided, but for that to be effective, everyone had to be using it. With the support of senior management, Bodner and his team required all contractors to use the Unifier system to submit cost estimates for the City-Center job. "We told them, 'If it doesn't come through Skire, it doesn't exist,' says Bodner.
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Moreover, he adds, "the system has demonstrated where the organization needs improvement and enabled us to implement these improvements."

Any incremental improvement can go right to the bottom line when you're building on 76 acres of prime Las Vegas Strip real estate valued at \$30 million an acre. Shaving even a single day off the deadline would represent a big savings in interest costs alone. Charette says.

Time will tell whether that happens but so far, the project has remained on schedule. CityCenter is slated to open in November 2009.



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CityCenter Facts

Cost: More than \$8 billion

Land: 76 acres on the Las Vegas Strip Construction workers: 7,000 Buildings: Nine

Square footage: 18 million

HIGHLIGHTS:

The Mandarin Oriental: A 47-story,
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Bodner says there have been a few instances where contractors claimed that their requests to purchase construction materials hadn't been approved by CityCenter project leaders. But because Unifier keeps a complete electronic audit trail of each request and the subsequent action and approved, contractors, project managers, accountants and other stakeholders have no one but themselves to blame if a request sixt in the system.

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EMERSON, CONSIDER IT SOLVED.

HEN Anthony
McCloud graduduction of graduin 2000, he didn't have a
smidgen of business experience. He didn't know the
first thing about business
processes, customer service
or the quirks and habits of
business workers.

Now he knows all that and much more. For the past seven years, McCloud has



From my experience, being on an IT help desk has been a huge, huge opportunity.

ARTHORY M=CLOUD, HELP DESK TECHNICIAN, MAC EQUIPMENT INC.

worked in help-desk-related roles at four companies, including stints at a hightech equipment maker and a

small restaurant chain. The experience he has gained from learning about different industries and mixing with various types and levels of business workers has been priceless in terms of strengthening his communication and rela-

tionship skills, he says. "From my experience, bebeing on an IT help desk has been a huge, huge opportunity," says McCloud, who was hired by Mac Equipment Inc. in Kansas City, Mo. in June 2007. In addition to his role as the company's lone help desk technician, McCloud has also helped out as a server analyst and has done application development work in SQL.

Visual C# and PHP.

As McCloud and others are discovering, many help desks have evolved beyond their ticket-taking roots — offering expanded opportunities for help desk employees. But that doesn't stop some IT professionals from hewing to the old line that a career stop on the help desk is a one-way ticket to Palookaville.

STRATEGIC OR STUCK?

"If you're hired just to work on a help desk, that's all you will ever do," says Fred Wagner, a FileNet and Kofax systems specialist for the city of Long Beach, Calif.

city of Long Beach, Calif. In particular, help desk technicians who work in "stovepiped" IT organizations — that is, companies where systems analysts, network managers and other IT professionals are segregated from one another — can go 15 years without being promoted into positions such as IT infrastructure specialist, business analyst or systems

administrator, he says. A new breed of IT pros begs to differ, maintaining that a job on a help desk can open doors to other IT career opportunities. Help desk technicians, these proponents say, gain valuable experience working with users throughout the enterprise and learning what makes the business tick. The IT help desk 'has

A Help Desk Job

Dead end or launching pad? By Thomas Hoffman





become the place where you learn about IT," says Rich Hand executive director of membership at HDI (formerly the Help Desk Institute), a 7,000-member association in Colorado Springs. Help desk professionals "get a feel for what's going on within the IT organization and often move into other areas such as network operations, says Hand

"Because it's client-facing, you get a lot of opportunities to develop your people skills and work a lot of different mental muscles," says Patrick Tyrrell, director of IT support and training at the Boston office of Bingham McCutchen LLP, an international law firm.

Tyrrell says nearly evervone he worked with on a help desk at a California-based IT outsourcing provider in the late 1990s has since moved into seniorlevel IT positions at well-regarded companies.

But that's not the case everywhere. For instance, career options can be limited for help desk technicians who work in monolithic IT organizations, says Paul Myers, an applications development manager at the Kansas Department of Transportation in Topeka

"I've known a couple of hundred IT help desk support people, and maybe a half-dozen have moved past being a support manager or a support leader. And all of those have done that by learning a new skill and moving to a new company, says Myers.

"If you're a help desk guy. you're a help desk guy, and the only thing you can aspire to is your boss's job," he contends.

Other IT pros disagree. "I never think of the help desk as a dead end," says Ronald

Kibbe, assistant director of customer support services for medical center information systems at the Ohio State University Medical Center in Columbus. Working on a help desk, says Kibbe, "can be a career, and it can be a launching pad."

When help desk technicians move up, they generally take on IT roles in systems administration. data center operations and network management, but they aren't necessarily limited to technically oriented

pursuits For example, help desk technicians with good problem-solving and interpersonal skills, as well as a broad understanding of business operations, can move into business analyst roles, says Ric Mims, executive consultant at Lafayette, Ind.-based SupportCenter Global Technologies Inc., who is also an HDI global

faculty member. When help desk managers move into more senior-level IT infrastructure positions, it's often in areas such as data center operations. desktop support, networking and telecommunications, says Ed Pospesil. chairman of Technology Executives Networking Group LLC in Guilford, Conn.

"I've seen IT executives who have started their careers on a help desk," says Pospesil, who has been a technical and IT executive recruiter for 32 years, "It cuts to their customer service and communications skills. They can follow a number of paths."

IN THE DRIVER'S SEAT Despite different views about the advisability of

starting an IT career on the help desk, most of the IT professionals, managers,

pros, who want to use the help desk as a career launching ad should plan to be in their roles for no more than two years so they don't become typecast or burned out, most experts agree.

You shouldn't leave anyon on a help desk for more than two years. It isn't beneficial unless they're unmotivated or that's what their career amb tion is," says David Lane, an infrastructure architect at a nment contractor in the hinoton area.

In fact, organizations often use the promise of training and a career path to solve another help desk problem; convincing high-quality workers to take those jobs in the first place Despite the opportunities that working on an IT help desk can offer, it can be dif-

college graduates to accept entry-level roles there if they have loftier ambitions

"The kids coming out of these higher institutions are expecting these \$70,000 to \$80,000 jobs, and it's tough for the employer to say 'Here's where you start." says Neil Hopkins, vice president of skills development at CompTIA

One way to attract recent graduates with high expectations is to offer entry-level IT workers the training and certifications they'll need to advance in the IT organiza-

tion, says Hopkins There are a lot ol individuals who would be delighted to take on a help desk role (). their careers were mapped out for them," he adds

-THOMAS HOFFMAN



If you're hired just to work on a help desk, that's all you will ever do.

FRED WAGNER. SYSTEMS SPECIALIST CITY OF LONG BEACH, CALIF.

..... consultants and academics interviewed for this story agree that help desk workers

their own career paths. The greatest opportunity for help desk technicians lies in their ability to learn about different facets of the business, "which makes them more valuable than a pure IT guy," says Robert Rosen immediate past president of 1BM user group Share and CIO at the National Institute of Arthritis and Musculoskeletal and Skin Diseases in

are largely responsible for

Bethesda, Md Conversely, "the guys who get stuck fon the help deskl are the ones who are heads-down and just want to fix PCs," he says, "And

they wonder why their careers are going nowhere." Other factors can come into play as well. A dynamic company where people move around a lot is a bet-

ter bet for advancement than one where people get nigeonholed, for example, And a culture where help desk mavens use sophisticated tools to solve challenging problems will build a résumé faster than one where they primarily reset passwords

But mostly, career growth for help desk technicians "is very person-dependent," says Rosen. "Some people use it as a launch pad. And other people make it a deadend iob."



A lot of people can be leaders when there's an environment that's conducive to making it happen.



MMORPGs — massively multiplayer online roleplaying games — like World of Warcraft, Eve and Ever Quest may be the best simulators of tomorrow's business en-

viennent. So say Byro Rowes. Thomas W. Malone and Toyo O'Driscoll in this month's Harvard Business Review. The underso found that these games closely mitror the evolving world of business. dismitror the evolving world of business. disorder teams, and leadership through colladoration rather than authority. Reves, the Paul C. Edwards Professor of Communication at Stanford University and co-faunded 85 ericsily Inc. a company that develops enterprise of power by that develops enterprise after that stams companies should be playing that stams companies should be playing.

Tell me about the Seriosity study commissioned by IBM. They asked us to

study collaboration and leadership in these [game] guilds. Moreover, these games are getting popular enough that, even if we don't want to take lessons from them, the people we're briring are steeped in them, so we need to at least know what's shaping their lives and contributing to their expectations for software when they set to work.

What were some of the study's conclu-

when we was to a survey to so a season of the most The most ferming one is star of the with the special qualities of the person doing the leading than with the environment itself. Tom Malone and I had looked at the leadership literature, and it's very biased toward leadership as a quality of an individual. Eaders are born, and you have to find them and nutrue them. Games were saying in many ways last the opposite A hot of people can be leaders when there is not the survey in the survey is the survey in the survey in the survey in the survey is the survey in the survey in the survey in the survey is the survey in the survey in the survey in the survey is the survey in the survey in the survey in the survey is the survey in the survey in the survey in the survey is the survey in the survey in the survey in the survey is the survey in the survey in the survey in the survey is the survey in the survey in the survey in the survey is the survey in the survey in the survey in the survey is the survey in the survey is the survey in the survey in the survey in the survey is the survey in the survey in the survey in the survey is the survey in the survey in the survey in the survey is the survey in the survey in the survey in the survey is the survey in the survey i

Revenge Gamers!

World of Warcraft and other games are honing tomorrow's business leaders.

maybe they just know what's going on.
A lot of gamers told us, "I could [lead in
a game], and it wouldn't happen at IBM."

What can you do with what you learned? A lot of information work is dull and boring, and there are productivity and retention problems that come from that. These games are engaging, compelling and just the opposite. So can we marry the juiciness of these experiences with the productivity needs of business contexts and get people more engaged in their work? A sales team meeting in World of Warcraft is not the first thing that's going to happen. But when you think about it, it's suggestive of how much fun it could be to be a guild in a game with goals and avatars and synthetic currency systems: I'll give you 10 pieces of gold for that PowerPoint I need tomorrow.

How are game players' challenges similar

to those of husiness isaders? Recruling, evaluating, retaining, persuading, compensating — all those things are really the same, if you're a guid leader, you're looking for new players; you're looking for new players; you're looking for the best before you white them; you need to figure out what they want and compensate them in the right way to keep them. And "I know yo keep them. And "I know he was a proposed to be the right way to keep them. And "I know to do you be all with that?"

And in today's work environments, so much is about persuading people to help you rather than having authority over them. Exactly, Decentralized work really means that coordinating people is much more important than commanding them.

Now as the game and business environments different? On the very legitimate issue of the consequences of aliance. When something both paperss in a game, you're not taking down millions of people invested in a company. Some of the psychological feetings may be the same, but in terms of the acrual stakes, the consequences are broader in businness. What would life the like in World of Warcraft if the future of the companver on the line! I would led different were on the line! I would led different were on the line! I would led different to be a supported to the line of the companies of the consequences to be based on the support of the consequences to be based on the support of the support of the support of the properties of the consequences to be based on the support of t



One World of Warchall gameleader, a former U.S. Army others with a master's degree in human resource management, likerned the leadership of an 80-peson rading solid to managing a mistore business.

And there are other differences. One is the whole notion of transparency, in games, there's a lot more transparency, in games, there's a lot more transparency in the culture as well as the rules. You know a lot in the games. You see what gare people have, what level they are project or a dwarf, and people know what you bring. The project is not the project of the

You note certain distinctive characteriates of hastership in olden games that point toward skills insonrow's hasters will need. Can we discuss passed? Gratianly, things can happen more quicklying games. In a game, you get some you've get one minute to decide who will lead and what the strategy will be and then the gain open. So there's a lost more opportunity to do things quickly, heration is an important part of their positive properties.

In business, we're not going to go to Step 2 until we know we won't fail on Step 5. The default strategy in games is. "That's a good idea: let's try that." Then, whant "All right, we all die Let's pole in instead of right next time." There's a lot of opportunity to try things a lot of simus. and there's value in that: A lot of small failures add up to global success rather than being so careful about each step.

Are gamers loss risk-averse in business?
Tony O'Driscoll has studied several
hundred gamers at IBM. It occurs to a
majority of them that things happening
in these games are similar to and different from real work and useful to think
about in real work. People volunteer
that they have made that connection.

Tall on about the housely that the use of matters engoders. In games, they are signals of your role and expertise. In respect to representing expertise, the games keep you honest in ways real life doesn't. You can't say you are a level 50 when you're only 40, whereas you can probably do that at work, where expertise is more objective. That's one reason people life there games because they're fair. In such you do in the hallway convesation is a whole when the properties of the properties of the properties of the sense of the properties of the sense of the properties of the sense of the properties of sense of the sense of the sense of the sense of sense of

Finally, you note that leadership roles are often temperary in games. To some extent, people with competence rise to the top, but there is a lot of temporary leadership: I've been in this dungeron, so I'll just take over. A corollary is that leaders get experience being followers and that's useful also, because people who know a lot are being directed by people who know less, but for whatever reason, it's their turn to take over.

Betting Back to the conclusion that the right environment may matter more than the right leader – how can companies bonefit from that insight? Build better environments, and leadership will emerge. There's a real interest in analytics in business now. You can have ale tof data about how things are going. Dashboard and analytics is a good example. They provide a leader board do by the right up there for everybody to see. It's very example.

Pay As You Go

A construction firm busts through piles of invoices with pro forma statements issued once a month. **By Gary Anthes**



This story is one in a series showcasing the best projects of this year's Premer 100 IT Leaders.

Tridel Corp. Located in Toronto, this company specializes in condomnium construc-

company specializes in condominium construction, sales and property management. It has annual sales of \$700 million (Canadian).

Ted Maulucci, CIO

IT STAFF: 22

PROJECT PAYBACK: It has reduced annual mvoicing costs by \$581,000 so far. HEN AN IT professional hits a home run, sometimes it's the magic of technology that's behind it. But sometimes it the sheer brilliance of an idea. Tridel Corp.'s Zero Iravoice project is an example

of the latter.

The concept was simple enough. Rather than process and pay invoices as they come in, just pay suppliers what records show is owed to them at the end of the month. In a major test of the system, Tride freduced the monthly volume of invoices from 2,400 to just 17 – saving \$21,000 in processing costs – and sharply cut the number of disputes and overpayments, £10 Ted

"pretty dramatic."
When Tridel sells a condominium, the buyer often selects upgrades, such as better appliances or an optional hardwood floor. Some of these items have standard prices, and some are custom-priced at the time of sale, which can occur as much as three years.

Maulucci calls the results

hefore the huyer moves in. Meanwhile, Maulucci says, the suppliers that will ultimately hill Tridel for the upgrades, and whose own systems tend to be rudimentary, can lose track of what

they agreed to bill. Before Zero Invoice, suppliers would send hills to Tridel every day - some 65,000 annually - as soon as a piece of work was completed. Then a Tridel project manager would have to match the invoice with his own records of what charges had been agreed to months earlier, Discrepancies occurred often and were very labor-intensive to resolve. "And when an invoice comes in at the wrong amount, you don't always

win." Maulucci says.
Now, Tridel simply aggregates each supplier's
charges, hased on its record
of what was done during the
month, and issues a single
pro forma invoice for the
supplier to sign off on at the
end of the month.

"When I tell people about Zero Invoice, they say, 'Don't your Suppliers' hate that? But it was the complete opposite, "Maulucci says." The [suppliers] don't have the systems we do. They say, 'I like it. It's easy for me. 'There's a trust level. They are getting paid faster, and it's easier for them to administer."

Line managers at Tridel like it too. Kevim McKeown, a construction project manager, says Zero Invoice has reduced the time he spends matching invoices with purchase agreements and verifying prices, from one to two hours per day during the last two weeks of the month to just one to two hours per month. "It's a great tool, and it's

helped me a lot," he says.
The "tool" consists of
modifications and enhancements to Tridel's commercial accounting package,
custom-coded using Microsoft Corp's. Net Framework.
"From a systems point of
view, this was not super
challenging, it's mostly slogging it out and keeping it

simple." Maulucci notes. He says he got the idea from similar programs in the manufacturing sector and from a home huilders conference two years ago. Another visionary at Tridel seized on it right away, but Maulucci acknowledges that some of the old guard were skeptical and remain so. "Getting an organization to change this dramatically is tough," he says. "It's such a

fundamental shift."
"Ted Maulucci has proven
to be a real IT innovator in
the industry," says Howard
Berger, a managing partner
at Realcomm Conference
Group LLC in Carlsbad,
Calif. "He really rethought
the process, and it seems to
work. I think it will he a beacon for other companies."



The [suppliers] don't have the systems we do. They say, 'I like it. It's easy for me.' There's a trust level. They are getting paid faster, and it's easier for them to administer.

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SYSTEMS MANAGEMENT II. A VERY DANGEROUS WORLD

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Months	Months	Months	Months
Your Job	YourMarriage	Your Sanity	Your Career



Getting the Best From an Audit

Don't fear the audit. Learn from it. The important thing is that systems should be more secure in the end.

> N independent information security audit can

he nervewracking, but this time, I actually enjoyed it. I guess it's just a matter of perspective.

It might help that I've been an auditor myself, and so I knew what the auditor was looking for and what he would put into his report. But that isn't the whole story.

A bigger factor was that this time around, I was prepared. And I've come to see the audit not as a reproach to my work but as a quantitative affirmation of all the things I've been saying we need to do to keep our data safe.

Of course, even quantitative results can be misleading, misguided or misconstrued, depending on the expertise of the auditor. And quite often, what most people will look at is the executive summary. In our case, that was a few pages, backed up by a 700-page technical report. Guess which one of those the higher-ups in state government are going to look at?

The problem is that this executive summary, like most of them, is filled with charts and graphs that grossly overstate our security problems. Not that we don't have problems. We do, and I'm glad to have them out in the open

In our report, what those charts and graphs showed were the number of high-, medium- and low-risk vulnerabilities and their levels of exploitability. The sheet volume of potential problems could overwhelm the uninitiated I need to formulate a

response to this, so that as this audit report goes up through the chain of com mand, those who read only the executive summary will have my comments to refer to. This will be a tough document to craft. because my purpose is to show how the executive

■ Of course, even quantitative results can be misleading, misguided or misconstrued, depending on the auditor's expertise.

summary exaggerates and distorts the actual situation but I don't want to sound defensive or oblivione to what are real short-

comings. MEGO GALORE

As for that 700-page technical report, even I could only scan it before I came down with a serious case of MEGO (my eyes glaze over). What I got out of it was that all of the highrisk vulnerabilities are related to our application development environment. And many of these highrisk vulnerabilities would require very little skill to cause serious harm.

This wasn't a big shock. I knew that application development was a problem. But the report was an opportunity to do something about it.

The basic weakness is that developers and programmers often have unpatched systems or have configured their systems so that the application they are working on will work the way they want it to. They give no thought to security matters, as you might well expect.

Trouble Ticket

AT ISSUE: It's time for an independent audit. **ACTION PLAN: Use this** quantitative analysis of the environment to reiterate the things that were previously ignored

My idea was to ask the auditor to help me develop documentation and processes for the agency that would ensure a formalized system-development life cycle. The new process addresses the security con-

cerns raised by the report. As a result, we now have a suitable framework with which we can begin doing things differently. At the same time, we moved the application development team to a separate network segment, off of the production network. That should make it less alarming if the application development systems aren't completely up to date

There is more work to do in the aftermath of this audit, but we've made big progress. Best of all. the positive outcome is something I wouldn't have thought of without the audit.

So here's a hit of advice: If you O JOH IN are a security manager, welcome your next

audit with open arms. The burdens of playing had con all the time and being ignored will be off your shoulders. Let the audit speak for itself - in all its quantitative glory. This week's journal is written by a real security manoper, "C.J. Kelly," whose name and employer have been disguised for obvious reasons. Contact her at

mscjkelly@yahoo.com.

Bur Perkins

State Your Purpose

GOOD MISSION STATEMENT is a brief, powerful description of an organization's purpose. Unfortunately, most corporate and IT mission statements are boring and forgettable expressions of motherhood and apple pie. Many are so vague and generalized that they could be used for almost any corporate entity. Others are just uninspiring collections of buzzwords.

Here are some of the things effective mission statements should do:

Send a message clearly and concisely. They should be short enough to remember, without sacrificing the substance of the message. Google's powerful mission is only nine words: "To facilitate access to information for the entire world," Long, detailed statements leave the reader overwhelmed, Barnes & Noble's mission statement is nearly two-thirds the length of the Gettysburg Address - and far less memorable

Inspire. A good mission should be a railying cry for the organization. President entire space program with one sentence: "This nation should commit itself to achieving the goal, before this deade is out, of landing a man on the Moon and returning him safely to Earth." NASA adopted this as its mission statement for the apollo project.

Drive transformation.An organization in the

midst of change can use a new mission statement to communicate its future directions. One retailer's IT mission, "Deliver IT services globally," seems superficial, but it succinctly describes the essence of the company's transformation. The word "deliver" acknowledges its move from in-house development and operations to selectively outsourcing IT functions, "IT services" indicates its migration from custom applications to using packaged applications and the softwareas-a-service model. "Globally" recognizes the required shift in its customer base, from domestic to worldwide

Differentiate your market position. Good mission statements should also differentiate the organization from its competitors. CVS states: "We will be

■ A good mission statement becomes a rallying cry for the organization. the easiest pharmacy retailer for customers to use." In a market threatened by giants like Wal-Mart and Coston "easiest" reflects CVS's choice to focus on service, not price. Pull the corporation into the future. In 1985, Comnuterworld reported that Bill Gates' vision was "to get a workstation running our software onto every desk and eventually in every home." At that point in history, that declaration was often perceived as brash and audacious. but it turned out to be an excellent (and prophetic) mission statement for the fledgling company

Enable trade offs. Good mission statements should help establish priorities. In 1980, Scandinarvian Airlines (SAS) was hemorthaging money, It created a new mission, "To become the best airline in the world for the frequent business traveker." Processes were climinated (including the tourist travel department), unless they directly supported



determined that business travelers wanted multiple choices of flights. Other airlines converted to larger, more fuel-efficient Airbus planes, forcing a reduction in the number of flights they could offer, but SAS maintained its full schedule by continuing to use smaller DC-9s. In 1983, SAS was named "Airline of the Year," Fortune magazine declared it the "best airline for business travelers," and it became highly profitable.

Guide daily behavior. A mission statement should help direct the way emplovees operate. Ritz-Carlton's goal of providing "extraordinary customer service" empowers frontline employees to solve most customer problems without seeking supervisor approval. Its consistent focus on customer service has won Ritz-Carlton the coveted Malcolm Baldridge National Quality Award twice

A good mission statement helps create a compelling vision of the future for an organization. Use it to enhance your organization's effectiveness by providing clarity of purpose. inspiration and motivation. as well as a vehicle for enabling transformation. Bart Perkins is managing partner at Louisville, Ky.based Leverage partners Inc., which helps organizations invest well in IT. Contact him at BartPerkins@ LeveragePartners.com

■ Q&A



Tell me about I.C.Stars. It's a nonprofit organization that was founded in 1999 for the aurnose of developing 1.000 community leaders by 2020. Through training in technology leadership and business skills, I.C.Stars prepares inner-city young people for high-level careers in IT. We do this through a project-based training model, through opportunities to meet IT leaders and potential employers, and through leadership training.

You had over 150 CIOs at last summer's iOpener event. What were son of the ideas for address ing the current IT talent

shortfall? A hyproduct of the 2001 technology crash and resulting mass layoffs was discouragement for young people to explore careers in IT. Our Opener event, which drew more than 150 ClOs from across the U.S. was designed to start reversing this trend and help schools to fill the talent supply chain at the high school level and to change perceptions about IT as a dead-end career path.

We now face a talent shortage in IT that reaches throughout the entire supply chain - from senior leaders to middle management and down to entry-level roles. We are busting the stereotype that the only future for IT is through offshore or outsourced talent Our CIO leaders are telling us loudly that they have a need for good IT talent here in the U.S. too.

What will I.C.Stars be doing differently as a result

of that conversation? We're growing the number of students in our program by 70% this year, in response to the market demand. Also, our curriculum will add a business analyst track to have our students compete against each other for an RFP working on an SAP module implementation. This is not about coding but doing the business analysis. And it may be unusual for entry-level IT staffers to be expased to this type of business case validation; we believe it is a sign of the times. It is something we are seeing our program sponsors support.

- JAM1E ECKLE



THE GOOD NEWS

THE BAD NEWS 29% said they tell asleep at work or nearly did in the previous month 36% said they nodded off

while driving. 27% said they frequently find it difficult to concentrate at work 20% said they are frequently less productive than they expect

34% said their workplace permits napping during breaks

While some employers are using a stick to keep health benefit costs down (such as making smokers pay larger premiums), others are holding out carrots. They're altering their benefit enrollment systems to encourage employees to adopt healthier behaviors, according to a survey by consulting firm Watson Wyatt Worldwide Inc.



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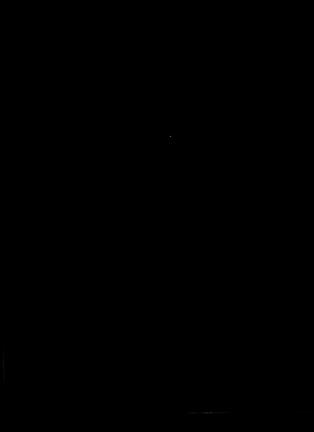
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36 COMPUTERWORLD MAY 12, 2008



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Sandee Kastrul The president and founder of LC.Stars talks about its IT

leadership initiatives.

Tell me about LC.Stars. It's a nonprofit organization that was founded in 1999 for the purpose of developing 1,000 community leaders by 2020. Through training in technology, leadership and business skills, I.C.Stars prepares inner-city young people for high-level careers in IT. We do this through a project-based training model, through opportunities to meet IT leaders and potential employers, and through leadership training.

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- JAMIE ECKLE



Incentives for Health

While some employers are using a stick to keep health benefit costs down (such as making smokers pay larger premiums), others are holding out carrots: They're altering their benefit enrollment systems to encourage amniouses to adopt healthier behaviors, according to a

PROGRAM OR ACTIVITY	INCOMPORATED IN EMPOLLMENT PROCESS*	COMMERCIAL PROPERTY IN
Health risk assessment	53%	32°a
Disease management	36°0	32%
Addressing tobacco use	29%	30%
Organizing on-site health screenings	26°0	32%
Surcharge if spouses have access to other coverage	20%	21°0
Promoting exercise or fitness center use	16%	32%
Weight or body mass index management	14%	36%
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the next two years?



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SharkTan

TRUE TALES OF IT LIFE AS TOLD TO SHARKY

A Little Too Agile

IT pilot fish is testing a new Web site built using an agile methodology, and he's not impressed. "I wanted to test a new feature added to the 'user profile' section," he says. "We had cleverty designed the user profile page to be password-protected, using the same password used to get into the site. But my password wouldn't work. The system gave me an error saying I couldn't use anything but alphanumeric characters, and my password contained an underscore. But I was allowed to create a password initially with an underscore Apparently, our teams didn't design any standard requirements for passwords - they

just built one password test to create your account and a different password test for the user profile page. And I couldn't change my pass word, because the page that would allow me to change my password didn't accept the sword that the Web site had already allowed me to create."

Well, Yes it's near the end of a monthslong user-acceptance test for a very big customer of this financial software vendor, when this pilot fish gets a call one afternoon saying the system is failing and no one can access the application. First question to customer: "What did you change?"

Customer's immediate response: We didn't touch anything. But after a day of digging, fish has a clearer answer: They touched some thing. "Their database admir had removed all the database permissions for the log-in being used for the application groans fish. "He thought the log-in had too many permissions, and he didn't like it. When asked what permissions he did grant the log-in. his reply was, 'None. Will that cause a problem?"

Broken, Redefined First assignment for this

newly hired pilot fish: Design a database application. But she's not allowed to create any tables or keys, only submit the design to a database admin. DBA accepts fish's tables but rejects her proposed indexes - and the resulting performance is miserable, but DBA refuses to budge. So when the DBA goes on vacation a few months

later, fish asks his temporary replacement for a new index on the test system. It tests fine, so it's moved to the live database. "The users immediately contact me," fish says. "They think the application must be broken because what used to take several minutes to run now takes seconds. I ask if they're getting the correct response. Yes, they say, but it's happening too fast to be doing the job. I explain what happened, and they're ali happy."

■ Yau can make Sharky happy by sending me your true tale of IT life at sharky@ camputerwarld.cam. I'll return the favar with a snazzy Shark shirt if I use it.

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Stunt IT

T PURDUE UNIVERSITY last week, the IT staff built a supercomputer. A world-class supercomputer. Out of PCs. Using just local IT talent. (OK, a team from Indiana University also helped.)

And it was done in less than a day.

A stunt? Certainly. A real IT project? Yes, just as certainly.

In fact, it was the epitome of a real IT project. It was funded by the departments that will use the machine. It was designed so the right technology can solve problems, and planned so that it would come together cleanly and effectively. And it went operational on budget and ahead of schedule.

How many of your real IT projects can make all those claims?

Of course, it was also a stunt. The new supercomputer was given a catchy name, "Steele" (after retired Purdue computer center director John Steele). The project was announced with a YouTube video made to look like a movie preview. More than 800 offthe-shelf commercial PCs were delivered, unboxed and rack-mounted all at once, just to show it could be done.

And it was assembled and working in one day. That wasn't just because it made a better stunt. The school's three existing scientific-computing clusters had been taken offline five days earlier, and academic researchers needed the hardware up and running fast.

When was the last time

When was the last time you did something like that? Something splashy and flashy, something to make users say, "Wow, this is really great stuff"?

this is really great stuff?

It's a good idea, doing
a stunt now and then to
show off. It's good for
morale and for IT's repu-

tation in your company.

But you wouldn't want
to do it with every rollout. Or even with every
major rollout.

■ When was the last time you did something splashy and flashy, something to make users say, "Wow, this is really great stuff?"

See, a stunt has to work. It's intentionally high-profile. The point is to have everyone watching as you look good doing what you do. You

really can't afford to fail. That means the flashy stunt rollout has to be planned with extraordinary care and executed with extraordinary discipline. Everyone has to know exectly what's supposed to happen. Each IT person — there were more than 200 involved in the Purdue rollout has to know his task and be prepared for whatever

might go awry.

And as with any good magic trick, everything has to be prepared in advance to minimize failure. That requires lots of advance testing, well-practiced hardware configuration and bulletproof software installation. Everything that can be done before zero hour should be done.

So, no half-baked plans,



no scat-of-the-pants navigation, no individuals doing it their own way just a smoothly executed delivery that makes users happy and makes your IT staffers look brilliant.

staffers look brilliant.
And there's one other
advantage: Stunt IT is
fun. For most of the IT
staffers involved, it's a
burst of hard work followed by an enormous
feeling of accomplishment and plenty of admiration from the rest of the
oreanization.

There's really just one downside. No, not the chance of failure — with the right preparation, you can do this.

The downside is that once users see your IT shop deliver a crisp, disciplined, well-planned and well-prepared roll-out, they'll expect that level of quality from IT all the time

Then again, if you have the skills and discipline necessary for stunt IT, you should be able to apply them to all your other projects. They might not be flashy and splastby, but they'd be the sharp, effective, real IT work your business needs.

That really would be some stunt.
Frank Hayes is Computer-world's senior news columnist. Contact him at frank_hayes@computer-world.com.



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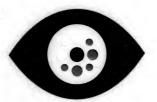


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ALTERNATIVE THINKING ABOUT SERVICE MANAGEMENT:

Alternative thinking is repositioning IT from the server closet to the front lines, embracing its impact on the business (not just in a PowerPoint*deck, but actually doing it).

It's rewiring the rules af engagement to identify problems, prioritize solutions and automate change (befare things become business critical).

It's partnering with HP, a pianeering force behind ITIL, ta leverage the experience of certified consultants and utilize the ingenuity engrained in the DNA of our software.

It's placing business metrics under the microscape every day, every minute, every nanosecond—enhancing insight and extending control (fram a financial perspective, for a change).